DOCKETED		
Docket Number:	18-BSTD-02	
Project Title:	2019 ENERGY CODE COMPLIANCE MANUALS	
TN #:	232776-14	
Document Title:	2019-CF2R-MCH-04-EvaporativeCoolerspdf	
Description:	otion: N/A	
Filer: Corrine Fishman		
Organization:	California Energy Commission	
Submitter Role:	Public Agency	
Submission Date:	te: 4/20/2020 8:13:30 AM	
Docketed Date:	4/20/2020	

EVAPORATIVE COOLERS

CALIFORNIA ENERGY	COMMISSION
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ENERGY COMMISSION

CEC-CF2R-MCH-04-E (01/19)	CALIFORNIA ENERGY CO	OMMISSION
CERTIFICATE OF INSTALLATION		CF2R-MCH-04-E
Evaporative Coolers		(Page 1 of 2)
Project Name:	Enforcement Agency:	Permit Number:
Dwelling Address:	City:	Zip Code:

A. System Information		
Each system requiring verification must use a separate form		
01	System Name or Identification/Tag	
02	System Location or Area Served	
03	Evaporative Cooler System Type	
04	Manufacturer Name of Installed Evaporative Cooler	
05	Manufacturer Model Number of Installed Evaporative Cooler	

3. Inst	allation Criteria		
01	Only indirect or direct/indirect systems may be installed as part of the evaporative cooling compliance option. Direct evaporative coolers do not meet the eligibility criteria.		
02	Installed evaporative cooler is listed as an approved non-central air conditioner and heat pumps.		
03	Equipment shall be permanently installed (no window or portable units).		
04	Installation shall provide for automatic relief of supply air from the house with maximum air velocity through the relief dampers not exceeding 800 fpm (at the Title 20 rated airflow). Pressure relief dampers and ductwork shall be distributed to provide adequate airflow through all habitable rooms. For installations with an attic, ceiling dampers shall be installed to relieve air into the attic, and then to outside through attic vents. For installations without an attic, sidewall relief dampers are acceptable.		
05	To minimize water consumption, bleed systems are not allowed.		
06	A water quality management system (either "pump out" or conductivity sensor) is required. "Pump out" systems can either be integral to the evaporative cooler or they can be accessories that operate on a timed interval. The time interval between dumps shall be set to a minimum of six hours of cooler operation. Longer intervals are encouraged if local water quality allows.		
07	The equipment manufacturer shall certify to the Energy Commission that water use does not exceed 7.5 gallons per ton hour based on the Title 20 Appliance Standards testing criteria.		
08	Automatic thermostats are required. On/off control is not allowed.		
09	If the evaporative cooler duct system is shared with a heating and/or cooling system, the installed duct system shall employ backdraft dampers at the evaporative cooler supply.		
10	The installing contractor must provide a winter closure device that substantially blocks outdoor air from entering the indoor space.		
11	The size of the water inlet connection at the evaporative cooler shall not exceed 3/8".		
12	Unless prohibited by local code, the sump overflow line shall not be directly connected to a drain and shall be terminated in a location that is normally visible to the building occupants.		
The res	sponsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.		
.0	Unless prohibited by local code, the sump overflow line shall not be directly connected to a drain and shall be terminated in a location this is normally visible to the building occupants. Sponsible person's signature on this compliance document affirms that all applicable requirements in this table have been met.		

EVAPORATIVE	COOLERS
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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Installation documentation is accurate and complete.

CALIFORNIA ENERGY COMMISSION
CALIFORNIA ENERGY COMMISSION

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Evaporative Coolers (F		(Page 2 of 2)
Project Name:	Enforcement Agency:	Permit Number:
Dwelling Address:	City:	Zip Code:

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Documentation Author Company Name:	Date Signed:
Address:	CEA/HERS Certification Identification (If applicable):
City/State/Zip:	Phone:
RESPONSIBLE PERSON'S DECLARATION STATEMENT	: 011
I certify the following under penalty of perjury, under the law:	vs of the State of California:
The information provided on this Certificate of Installation	on is true and correct.
·	on 3 of the Business and Professions Code in the applicable classification to accept
· · · · · · · · · · · · · · · · · · ·	stallation of features, materials, components, or manufactured devices for the scope
	attest to the declarations in this statement, or b) I am an authorized representative
of the responsible person and attest to the declarations i	
3. The constructed or installed features, materials, compon	nents or manufactured devices (the installation) identified on this Certificate of
	ions and the installation conforms to the requirements given on the Certificate of
Compliance, plans, and specifications approved by the er	
	Installation shall be posted or made available with the building permit(s) issued for
	ency for all applicable inspections. I understand that a registered copy of this
Responsible Builder/Installer Name:	the documentation the builder provides to the building owner at occupancy. Responsible Builder/Installer Signature:
responsible bulluer/fitstaller realite.	Responsible bulluer/histalier signature.
Company Name: (Installing Subcontractor or General Contractor or Builder/Own	vner) Position With Company (Title):
Address:	CSLB License:
City/State/Zip:	Phone: Date Signed:
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Evaporative Coolers

(Page 1 of 1)

CF2R-MCH-04-E User Instructions

Section A. Evaporative Cooler Equipment Information

- This field is automatically imported from the CF2R-MCH-01. The number entered in the field equals evaporative cooler system name or identification/tag from the building plans.
- This field is automatically imported from the CF2R-MCH-01. The number entered in the field equals evaporative cooler system location or the 2. area served. Jata collection a
- 3. This field is automatically imported from the CF2R-MCH-01. Allowable values are:
 - *evaporative direct
 - *evaporative indirect
 - *evaporative indirectdirect
- 4. Enter the Evaporative Cooler Manufacturer Name.
- 5. Enter the Evaporative Cooler Model Number.

Section B. Installation Criteria

- This statement must be true (or not applicable) to comply. 1.
- This statement must be true (or not applicable) to comply. 2.
- 3. This statement must be true (or not applicable) to comply.
- 4. This statement must be true (or not applicable) to comply.
- 5. This statement must be true (or not applicable) to comply.
- 6. This statement must be true (or not applicable) to comply.
- 7. This statement must be true (or not applicable) to comply.
- For information while Pegisters only. Not valid until registers or provider